

Abstract

A power adapter is shown for use on injection molding runner nozzles. The power adapter provides for quick and easy installation (and removal) of thick film resistance heaters on the runner nozzles, without the need for rewiring. The power adapter comprises a series of rings that allow insertion of the terminal end of the heater, which is then rotated into a locked position. One of the rings contains contacts which are at least semi-permanently wired to a power source. To facilitate the power adapter, a novel method terminating the heating element is used. A noble-metal-based bonding agent (such a silver-base ink) is applied to the heating element and/or terminal plate. The terminal plate is then affixed to the heating element and the bonding agent is fired.